Scope of Work: Understanding the Food Ingredients Sector in South Africa

Definition:

A food ingredient refers to any substance that is added to food or used by the food manufacturing sector to achieve a specific desired effect such as providing nutrition, flavor, color, physical stability and many more. Proposals should exclude ingredients such as wheat and cane sugar, which are classified as bulk commodities.

Types, Functions and Key Sectors Utilizing of Food Ingredients:

Food ingredients are classified by the functions they serve in our food as shown in **Table 1**. Based on the uses listed in **Table 1**, the key sectors utilizing food ingredients are as follow:

- Beverage (alcoholic and non-Alcoholic) Sector.
- Manufactures of Candy, Jellies, Jams and Sweets.
- Cereal.
- Canned/ Tinned Food.
- Dairy.
- Baking and Confectionery.
- Cured/ Processed Meat.
- Sauces, Dressings and Condiments.
- Dietary Foods.
- Animal and Pet Foods

South Africa has a well-developed and advanced food sector, which is a key driver in the use and demand for food ingredients. South Africa has large companies, like Tiger Brands and Coca-Cola, as well as many small and medium sized companies that utilize food ingredients. Food ingredient suppliers include both importers and South African companies, such as Crown National. As a result, South Africa imports a significant amount of food ingredients. In 2019, South African Food ingredient imports amounted to US\$1.7 billion, which is about 22 percent of the total South African agriculture and related products imports.

The United States share of the South African food ingredient imports is 6 percent (US\$110 million), which is competitive and diversified, despite other countries benefiting from duty free access under several Free trade Agreements (FTA). Notably, the United States is the largest supplier of Food Preparations and Enzymes. The United States is the fourth largest supplier of Mixtures Of Odoriferous Substances And Mixtures and Animal Feed Preparations. The beverage sector seems to be the leading driver of food ingredient imports into South Africa. The main food ingredients imported by the beverage sector include Mixtures Of Odoriferous Substances And Mixtures; and Food Preparations.

Market Study Should Include:

- > Detailed description of the food ingredients value chain, with a specific focus on imported ingredients and the utilization of distributors and/or importers for food ingredients.
- ➤ An explanation of the decision making process food companies utilize to choose suppliers for food ingredients. For example, what makes suppliers competitive in the market.
- ➤ Relevant market shares of the food ingredient importers and companies including a comprehensive list of food companies, distributors and importers to be targeted for future marketing activities
- Analysis of best market prospects for U.S. food ingredient suppliers, including potential growth markets. Where possible, also identify potential challenges/hurdles U.S. food ingredient suppliers may face or have to overcome to achieve some of these prospects.

> Analysis of trade in Food Preparations and Animal Feed Preparations that are listed under the Other category that includes a description of the product and and what countries are supplying them. The bulk of the imports under the Food Preparations, and Animal Feed Preparations are under the Other category, namely, HS Code 21069090 and HS Code 23099092.

Table 1: Types of Food Ingredients					
Function					
Purpose - Acidity regulators, such as phosphates, help control the pH levels of foods. Phosphates are useful derivatives of the element phosphorus. It is an essential mineral and the second most abundant nutrient in the human body. In the human body, phosphorus is required for growth, maintenance, and repair of all tissues, and is necessary for the proper formation and growth of bones. Source - Phosphate rock is mined to obtain phosphorus. Natural phosphate rocks include clay and other minerals, and must be purified to isolate phosphorus in the form of phosphoric acid. The acid is reacted with alkaline salts to produce purified phosphates. Use - Meats, tomato ketchup, some dairy products and soft drinks are common sources of phosphates. Purpose - Anti-caking agents keep solid food free-flowing. Powdered foods often clump together and change textures when they absorb water, but anti-caking agents help to prevent this from taking place. Source - Many anti-caking agents are derived from natural sources, such as silicates —					
minerals that are among the most common on earth. Calcium silicate is a common anti-caking agent found in table salt. It helps to absorb both oil and water to reduce salt particles from clumping together. Use - Table salt, flours, sugar products, powdered milks, grated cheese, cake mixes and egg mixes.					
Purpose - Colors are used to balance and enhance colors that occur naturally in foods. They are also often used to give colorless food life making them more enjoyable and fun. Source - There are two types of food colors approved by the FDA—certified colors and exempt from certification. Colors exempt from certification are derived from natural materials like vegetables and minerals, while certified colors are synthetically produced. Use - Candy, margarine, beverages, cheese, jellies, yogurt and baked goods.					
Purpose - Microbial food cultures exist in foods naturally or are added to provide acidification, texture, and flavor. They also provide nutritional benefits to the consumers, while helping to extend the shelf life of foods. Source - Microbial food cultures include bacterial food cultures, fungi and yeast, and can be divided into "probiotics" and "starter cultures Use - Dairy, meats, fish, breads, juices and fermented foods.					
Purpose - Emulsifiers help to prevent oil and water mixtures from separating. Stabilizers help					
ingredients stay dispersed and suspended in the solution. Thickeners enhance the texture of					
foods and can give low fat or reduced calorie foods the texture of full fat/calorie options. All are					
helpful in maintaining the appearance of foods and preserving freshness and quality.					
Source - Mono- and diglycerides of fatty acids are a common example of an emulsifier as they disperse fat in foods to allow it to become more water-soluble. Emulsifiers can be used to					
reduce calories and/or to replace fat. They can also help reduce food waste by keeping foods					
mixed.					
Use - Emulsifiers are found in a variety of foods, including margarine, ice cream, bread,					
chocolate, and some processed meats. Purpose - Firming agents are used to help foods maintain their crisp quality and strength. They					
are also commonly used to help ensure the shelf-life of foods.					
Source - Sodium Citrate, also known as citric acid, is a common firming agent derived from citrus.					

	Use - Fruits, vegetables, canned meats and fish, pickles and relishes.
Flavors/ Flavor	Purpose - Flavors are added to foods to enhance taste and flavor. Sometimes they enhance a
Enhancers	flavor already present in a food. Other times, they impart flavor to foods that would otherwise
	be bland and tasteless. Source - There are two types of flavors: natural and artificial. Natural flavors are derived from
	plants and herbs or the raw material of animals. Artificial flavors are developed from synthetic
	sources to mimic common flavors. Flavors are made from a wide variety of sources, but
	typically are isolated from certain flavorful foods.
	Use - Candies, soft drinks, sauces, salad dressings, desserts, ice cream, nutritional and dietary
Foaming/Anti-	foods, and cereals. Purpose - A foaming agent helps to produce foams in foods by reducing surface tension, while
foaming Agent	an anti-foaming agent reduces the formation of foam in liquids.
	Source - Foaming agents are commonly made from naturally occurring materials like licorice
	root and the bark of the trees (quillaja extract). Defoamers are commonly made from silicates,
	minerals that are among the most common on earth.
	Use - Foaming agents are typically used in beverage and flavored waters. Anti-foaming agents are used in oils, jams and jellies, juices, sauces and liquid eggs.
Humectant	Purpose - Help to retain or prevent the loss of moisture in foods by joining and controlling
	water activity. Humectants also aid in increasing the shelf life of foods by lowering microbial
	activity.
	Source - Sorbitol is a common humectant in foods that is derived from the natural sugars in fruits, some vegetables and seaweed. It has moisture-stabilizing properties that help to prevent
	dryness and maintain freshness of foods. Glycerin is a humectant commonly used to control the
	moisture levels in foods that contain a mix of oil and water.
	Use - Dairy, some fruits and vegetables, confections, and baked goods.
Preservatives	Purpose - Preservatives are added to foods to keep them safe for consumption by helping to
	prevent spoilage. Preservatives also help foods maintain their appearance, taste and texture.
	Source - Preservatives can come in many forms, from natural and artificial to chemical. Sugars, salts and vinegars are examples of natural food preservative, which are often used to delay the
	growth of bacteria in foods. Antioxidants are examples of chemical preservatives. Antioxidants
	help to reduce oxidation in foods, increasing the shelf life of foods and preventing spoilage.
	Use - Jellies, cured meats, oils, cereals, dressings, fruits, vegetables, and baked goods.
Sweeteners	Purpose - Sweeteners add sweetness to foods, and are often a low to no calorie sugar substitute
	for sugars. They are used in small amounts to intensify or to obtain the same level of sweetness
	as regular sugars, without raising blood sugar levels. Source - Sweeteners come from a variety of sources from plants like stevia to artificial
	chemicals.
	Use - Soft drinks, canned foods, jellies and jams, baked goods, candy and dairy products.

Source: http://ifacprod.wpengine.com/facts-on-food-ingredients/type-of-ingredients/

Table 2: South African Food Ingredient Imports from the United States

	South Africa Imports from United States				
	Commodity: Food Ingredients				
	Annual & YTD Series				
HS Code	Description	2017	2018	2019	
	TOTAL	111,531,167	104,285,464	109,705,020	
210690	Food Preparations Nesoi	29,330,941	24,657,192	26,469,531	

350790	Enzymes And Prepared Enzymes, Nesoi	21,404,781	18,492,471	19,664,277
	Mixtures Of Odoriferous Substances And Mixtures	,		,,
	(Including Alcoholic Solutions) With A Basis Of These			
330210	Substances Used In The Food Or Drink Industries	11,979,414	11,884,288	14,482,303
	Animal Feed Preparations (Mixed Feeds, Etc.), Other			
230990	Than Dog Or Cat Food Put Up For Retail Sale	7,403,709	9,111,389	10,369,943
350510	Dextrins And Other Modified Starches	5,657,211	5,043,329	6,136,985
	Milk Albumin, Including Concentrates Of Two Or			
350220	More Whey Proteins	5,492,437	5,177,320	5,488,652
	Sauces And Preparations Therefor, Nesoi; Mixed			
210390	Condiments And Mixed Seasonings	4,622,411	5,586,582	5,320,964
	Lactose And Lactose Syrup Containing By Weight 99%			
170011	Or More Lactose, Expressed As Anhydrous Lactose,	5 120 701	4 174 077	4 000 240
170211	Calculated On The Dry Matter	5,138,781	4,174,077	4,908,240
210610	Protein Concentrates And Textured Protein Substances	5,951,637	4,076,151	3,411,200
130213	Vegetable Saps And Extracts Of Hops	1,649,328	1,296,414	2,085,076
	Hop Cones, Ground, Powdered Or In The Form Of	. = 0 =		
121020	Pellets; Lupulin	1,702,466	1,948,524	1,372,783
180690	Cocoa Preparations, Not In Bulk Form, Nesoi	1,171,856	1,750,839	1,192,063
120810	Flours And Meals Of Soybeans	540,831	441,918	1,080,479
	Vegetable Materials And Vegetable Waste, Vegetable			
	Residues And By-Products Used In Animal Feed,	4-0		
230800	Including Products In The Form Of Pellets, Nesoi	65,428	796,088	668,943
170219	Lactose In Solid Form And Lactose Syrup, Nesoi	171,485	420,724	653,533
1.0.400	Sugar Confectionary (Including White Chocolate), Not	0.45.450	1 00 5 777	700 700
170490	Containing Cocoa, Nesoi	847,173	1,026,577	582,502
130219	Vegetable Saps And Extracts, Nesoi	472,553	423,261	546,560
	Glucose And Glucose Syrup, Containing In The Dry			
170240	State At Least 20% But Less Than 50% By Weight Of	700 551	912 004	492 905
170240	Fructose, Excluding Invert Sugar	709,551	813,094	482,805
210410	Soups And Broths And Preparations Therefor	142,287	538,786	477,750
292320	Lecithins And Other Phosphoaminolipids	533,342	704,934	439,924
	Coffee Extracts, Essences And Concentrates And			
210112	Preparations Of These Extracts, Essences Or	2.094	241 109	290 670
210112	Concentrates Or With A Basis Of Coffee Yeasts, Inactive; Other Single-Cell Micro-Organisms,	2,984	241,108	389,679
210220	Dead	329,195	753,805	365,493
210220	Whey And Modified Whey, Whether Or Not	327,173	755,605	303,473
040410	Concentrated Or Containing Added Sweeteners	2,582,335	1,266,708	358,273
291570	Palmitic Acid, Stearic Acid, Their Salts And Esters	234,198	898,913	298,573
271310	Peptones And Derivatives; Other Proteins And	237,170	0,0,,,13	270,313
350400	Derivatives, Nesoi; Hide Powder, Chromed Or Not	519,347	334,451	295,001
330130	Resinoids	7,770	12,792	264,640
330130	Mucilages And Thickeners, Whether Or Not Modified,	7,770	12,172	201,040
130239	Derived From Vegetable Products, Nesoi	94,912	315,975	242,747
210210	Yeasts, Active	363,833	329,733	210,309
170290	Sugar, Nesoi, Including Invert Sugar And Invert Syrup	547,097	205,815	161,923
350190	Caseinates And Other Casein Derivatives; Casein Glues	36	148,738	127,850
130231	Agar-Agar	3,027	11,845	123,094

	Coffee Extracts, Essences And Concentrates, And			
	Preparations With A Basis Of These Products Or With			
210111	A Basis Of Coffee	83,178	32,392	110,550
	Malt Extract; Food Products Of Flour, Meal, Etc. With			
	Cocoa (If Any) Under 40% And Milk Or Cream			
190190	Products With Cocoa (If Any) Under 50%, Nesoi	183,587	123,639	95,225
	Mixes And Doughs For The Preparation Of Bread,			
	Pastry, Cakes, Biscuits And Other Bakers' Wares Of			
190120	Heading 1905	308,891	149,646	81,782
110630	Flour, Meal And Powder Of The Products Of Chapter 8	52,680	163,912	74,372
350110	Casein	0	63,831	64,642
	Mucilages And Thickeners, Whether Or Not Modified,			
	Derived From Locust Beans, Locust Bean Seeds Or			
130232	Guar Seeds	58,679	84,669	62,614
	Products Consisting Of Natural Milk Constituents,			
040490	Whether Or Not Sweetened, Nesoi	67,537	31,423	61,284
	Cocoa Powder, Containing Added Sugar Or Other			_
180610	Sweetening Matter	2,195	15,803	60,456

Source: Trade Data Monitor (TDM)

Table 3: South African Food Ingredient Imports from the World

	South Africa Imports from _World					
	Commodity: Food Ingredients					
	Annual & YTD Series					
HS Code	Description	2017	2018	2019		
0	Total	1,702,284,474	1,769,637,876	1,700,339,232		
220210	Mixtures Of Odoriferous Substances And Mixtures (Including Alcoholic Solutions) With A Basis Of These Substances Used In The Food	474 412 200	470 240 064	464.510.640		
330210	Or Drink Industries	474,412,389	478,248,064	464,510,649		
210690	Food Preparations Nesoi	167,814,369	185,672,636	180,872,792		
	Soybean Oilcake And Other Solid Residues Resulting From The Extraction Of Soy Bean Oil, Whether Or Not Ground Or In The Form					
230400	Of Pellets	184,419,886	163,436,532	132,624,466		
230990	Animal Feed Preparations (Mixed Feeds, Etc.), Other Than Dog Or Cat Food Put Up For Retail Sale	86,199,703	112,781,576	95,190,559		
210111	Coffee Extracts, Essences And Concentrates, And Preparations With A Basis Of These Products Or With A Basis Of Coffee	67,360,794	76,025,653	67,797,062		
350790	Enzymes And Prepared Enzymes, Nesoi	73,443,981	69,139,533	61,126,387		
180690	Cocoa Preparations, Not In Bulk Form, Nesoi	59,511,187	65,040,842	54,918,470		
350510	Dextrins And Other Modified Starches	36,184,235	42,289,921	41,475,525		
170490	Sugar Confectionary (Including White Chocolate), Not Containing Cocoa, Nesoi	36,766,857	39,332,554	39,518,531		
170290	Sugar, Nesoi, Including Invert Sugar And Invert Syrup	39,021,985	31,545,234	35,440,700		

	Whey And Modified Whey, Whether Or Not		1	
040410	Concentrated Or Containing Added Sweeteners	15,894,194	21,811,043	34,391,598
	Peptones And Derivatives; Other Proteins And			
	Derivatives, Nesoi; Hide Powder, Chromed Or			
350400	Not	30,249,559	36,173,452	33,177,142
	Flours, Meals And Pellets, Of Meat Or Meat			
220110	Offal, Unfit For Human Consumption; Greaves	22.062.250	24 601 206	20 217 120
230110	(Cracklings)	33,862,359	34,681,306	30,317,139
	Chocolate And Other Cocoa Preparations In			
100/21	Blocks, Slabs Or Bars, Weighing 2 Kg Or Less,	10 (01 005	22 700 726	20.226.101
180631	Filled	19,601,985	23,790,726	28,326,101
210200	Sauces And Preparations Therefor, Nesoi; Mixed Condiments And Mixed Seasonings	20 242 224	21 022 947	25 964 019
210390	Sunflower Seed Oilcake And Other Solid	20,342,234	21,022,847	25,864,918
	Residues Resulting From The Extraction Of			
	Sunflower Seed Oil, Whether Or Not Ground			
230630	Or In The Form Of Pellets	7,115,053	8,605,077	25,648,384
230030	Palmitic Acid, Stearic Acid, Their Salts And	7,113,033	0,003,077	23,040,304
291570	Esters	22,369,272	26,238,680	20,296,358
180400	Cocoa Butter, Fat And Oil	21,219,671	24,503,557	18,911,298
	Protein Concentrates And Textured Protein			
210610	Substances	13,500,390	14,270,397	15,619,048
	Lactose And Lactose Syrup Containing By			
	Weight 99% Or More Lactose, Expressed As			
	Anhydrous Lactose, Calculated On The Dry			
170211	Matter	12,524,724	11,964,373	15,600,388
180310	Cocoa Paste, Not Defatted	15,936,031	16,489,715	15,131,605
350110	Casein	12,185,568	13,484,798	14,261,147
	Cocoa Powder, Not Containing Added Sugar Or			
180500	Other Sweetening Matter	14,809,981	12,628,614	13,955,419
	Malt Extract; Food Products Of Flour, Meal,			
	Etc. With Cocoa (If Any) Under 40% And Milk			
	Or Cream Products With Cocoa (If Any) Under			
190190	50%, Nesoi	5,422,430	7,317,062	13,706,692

Source: TDM